

AMENDMENTS TO THE SPECIFICATION

At page 7, lines 15 – 20, please replace the paragraph as follows:

Cardiac stimulation may be used as a therapy for disordered breathing. A therapy method using cardiac pacing is described in commonly owned U.S. Patent application entitled “~~Adaptive Therapy for Disordered Breathing,” identified under Docket Number GUD.059PA Publication No. 2005/0039745, which was filed concurrently with this patent application, and incorporated herein by reference in its entirety.~~ The cardiac stimulation methods described use adaptive therapy to reduce an impact of the therapy on the patient.

At page 8, lines 16 – 25, please replace the paragraph as follows:

Contextual conditions generally encompass patient-external or background conditions. Contextual conditions may be broadly defined to include, for example, present environmental conditions such as patient location, ambient temperature, humidity, air pollution index, as well as historical/background conditions relating to the patient, including the patient’s normal sleep time and the patient’s medical history, for example. Methods and systems for detecting some contextual conditions, including, for example, proximity to bed detection, are described in commonly owned U.S. Patent Application entitled “~~Methods and Devices for Detection of Context When Addressing A Medical Condition of a Patient,” serial number 10/269611, filed October 11, 2002~~Publication No. 2004/0073093, which is incorporated by reference herein in its entirety.

At page 14, lines 18 – 26, please replace the paragraph as follows:

The patient’s location may also be useful in prediction of disordered breathing. Because disordered breathing often occurs during sleep, the patient may be more likely to experience disordered breathing if the patient is in bed. A bed proximity sensor may be implemented by placing a beacon transmitter on the patient’s bed. Receiver circuitry on or in the patient, for example, incorporated in the patient’s pacemaker, receives the beacon signal and determines that the patient is in bed. A proximity to bed sensor methodology is further described in commonly

~~owned U.S. Patent Application, entitled "Methods and Devices for Detection of Context When Addressing A Medical Condition of a Patient." Publication No. 2004/0073093.~~

At page 17, lines 10 – 15, please replace the paragraph as follows:

Alternatively, or additionally, the system may detect that the patient is sleeping by examining the patient's respiration and/or activity prior to making a prediction regarding sleep disordered breathing. A method for determining that the patient is asleep is described in commonly owned U.S. Patent Application, Serial Number 10/309,771, filed December 4, 2002No. 7,189,204, which is incorporated herein by reference in its entirety.

At page 25, lines 26 – 29, please replace the paragraph as follows:

Another method for detecting disordered breathing involves defining and analyzing a number of respiratory cycle intervals. Such a method is described in commonly owned U.S. Patent Application, Serial Number 10/309,770, filed December 4, 2002No. 7,252,640, which is incorporated herein by reference in its entirety.

At page 27, lines 25 – 30, and page 30, lines 1 – 8, please replace the paragraph as follows:

A disordered breathing module 640 incorporated within the cardiac rhythm management system 600 includes circuitry for disordered breathing detection 644, as well as the disordered breathing prediction engine 642. The implanted signal detection circuitry 650 and patient reported/external sensor detection circuitry 660 are coupled to the disordered breathing module 640. The implanted signal detection circuitry 650 and patient reported/external sensor detection circuitry 660 provide signals associated with various conditions used for disordered breathing detection and prediction. A prediction of disordered breathing by the disordered breathing prediction engine 642 may be used to trigger cardiac pacing therapy delivered by the cardiac therapy module to mitigate disordered breathing as more fully described in commonly owned U.S. patent application entitled "Adaptive Therapy Triggered by Prediction of Disordered Breathing," identified under Docket Number GUD.103PAPublication No. 2005/0043772, which

was filed concurrently with this patent application, and incorporated herein by reference in its entirety.

At page 31, lines 9 – 22, please replace the paragraph as follows:

The following commonly owned U.S. Patents Applications, some of which have been identified above, are hereby incorporated by reference in their respective entireties: U.S. Patent Application Serial Number 10/309,770 (~~Docket Number GUID.064PA~~), ~~filed December 4, 2002~~ now U.S. Patent No. 7,252,640, U.S. Patent Application Serial Number 10/309,771 (~~Docket Number GUID.054PA~~), ~~filed December 4, 2002~~ now U.S. Patent No. 7,189,204, U.S. Patent Application entitled “Sleep Quality Data Collection and Evaluation,” identified by Docket Number ~~GUID.058PA~~ and Publication No. 2005/0042589, which was concurrently filed with this patent application, U.S. Patent Application entitled “Adaptive Therapy for Disordered Breathing,” identified by Docket Number ~~GUID.059PA~~ and Publication No. 2005/0039745, which was filed concurrently with this patent application, U.S. Patent Application entitled “Sleep State Classification,” identified by Docket Number ~~GUID.060PA~~ and Publication No. 2005/0043652, which was filed concurrently with this patent application, and U.S. Patent Application entitled “Therapy Triggered by Prediction of Disordered Breathing,” identified by Docket Number ~~GUID.103PA~~ and Publication No. 2005/0043772, which was filed concurrently with this patent application.